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Attachment to NPIC/IEG (04/82)  
23 APRIL 1982

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**CONSTRUCTION ACTIVITY****TYURATAM SPACE LAUNCH SITES W AND J1/2, USSR**

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1. (S/D) **SIGNIFICANCE:** CONSTRUCTION HAS SIGNIFICANTLY PROGRESSED AT SPACE LAUNCH SITE W AND AT A SLOWER RATE AT SPACE LAUNCH J1/2 DURING LATE 1981 AND 1982.

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2. (S/D) **REMARKS:** [REDACTED] AT LAUNCH SITE W, CONSTRUCTION CONTINUED ON THE LAUNCH PAD SUBSTRUCTURE WHICH WAS IN THE MID-STAGE OF CONSTRUCTION (GRAPHIC 1). A LARGE LATTICE LIGHTNING ARRESTER TOWER (32 METERS AT THE BASE AND CURRENTLY [REDACTED] WAS UNDER CONSTRUCTION SOUTHWEST OF THE LAUNCH PAD. THE BASE COMPONENTS FOR A SERVICE GANTRY WERE SOUTHEAST OF THE LAUNCH PAD AND DUAL TRACKS FOR A TRANSPORTER/ERECTOR WERE CONSTRUCTED ON THE SOUTHWEST SIDE OF THE LAUNCH PAD (GRAPHIC 2). A PROBABLE WATER DELUGE SYSTEM WAS UNDER CONSTRUCTION NORTHWEST OF THE LAUNCH POSITION. THIS WILL BE THE FIRST DELUGE SYSTEM ASSOCIATED WITH SOVIET SPACE LAUNCH VEHICLES.

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(S/D) A CRYOGEN STORAGE AREA CONSISTING OF TEN SPHERICAL TANKS IS NEARING COMPLETION NORTH OF THE LAUNCH POSITION (GRAPHIC 3). THE SPHERICAL TANKS WILL BE USED TO STORE HIGH-ENERGY PROPELLANTS FOR THE UPPER STAGE(S) OF THE LAUNCH VEHICLES. CRYOGEN STORAGE AREAS FOR HIGH-ENERGY PROPELLANTS WERE ALSO UNDER CONSTRUCTION AT SPACE LAUNCH SITE J1/2 AND LAUNCH SITE Y1/2 [REDACTED] TWO TYPES OF SPHERICAL TANKS (TYPE-A AND TYPE-B) WILL BE USED TO STORE THE CRYOGENS. THE TANKS APPEAR TO BE IDENTICAL WITH THE EXCEPTION OF A SMALL STRUCTURE ON THE TOP OF EACH TYPE-A TANK. THE IDENTIFICATION OF TWO TYPES OF TANKS FOR STORING CRYOGENS SUGGESTS THAT DIFFERENT TYPES OF CRYOGEN PROPELLANTS MAY BE USED.

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(S/D) THE MODIFICATION TO SPACE LAUNCH SITE J1/2 IS PROGRESSING AT A SLOW RATE AND THE EXTENT OF THE MODIFICATION TO OCCUR AT THE LAUNCH SITE IS UNKNOWN (GRAPHIC 4). MODIFICATION TO THE LAUNCH SITE THUS FAR HAS CONSISTED OF CONSTRUCTION OF ADDITIONAL PROPELLANT STORAGE AREAS AND MODIFICATIONS TO THE SERVICE GANTRY.

(S/D) ADDITIONAL ARCH-ROOFED PROPELLANT BUNKERS AND A CRYOGEN STORAGE AREA HAVE BEEN ADDED TO THE LAUNCH SITE. THE ARCHED-ROOFED PROPELLANT BUNKERS WILL PROBABLY STORE CONVENTIONAL PROPELLANTS FOR THE LOWER STAGE(S) OF THE LAUNCH VEHICLE. THE NEW CRYOGEN STORAGE AREA WILL CONTAIN TEN SPHERICAL TANKS FOR STORING HIGH-ENERGY PROPELLANTS. A NEW TECHNIQUE FOR ASSEMBLING THE SPHERICAL TANKS WAS IDENTIFIED AT COMPLEX J. THE NEW TECHNIQUE INVOLVES THE ASSEMBLY AND INSTALLATION OF THE LOWER OUTER HEMISPHERE AT ITS PERMANENT LOCATION. THE INNER TANK, WHICH HAS BEEN ASSEMBLED AWAY FROM THE POSITION, IS LOWERED INTO THE LOWER HEMISPHERE. THE UPPER HEMISPHERE IS THEN PLACED OVER THE INNER TANK DURING THE FINAL STAGES OF ASSEMBLY.

(S/D) MODIFICATION TO THE SERVICE GANTRIES AT J1/2 INCLUDED THE REMOVAL OF THE SERVICE PLATFORMS ON THE ROTATABLE SERVICE GANTRIES AND THE REMOVAL OF THE TOP 23 METERS OF THE GANTRY AT LAUNCH POSITION J2. NO APPARENT MODIFICATION HAS BEEN MADE TO EITHER LAUNCH APERTURE. THREE LATTICE LIGHTNING ARRESTER TOWERS, TWO AT POSITION J1 AND ONE AT POSITION J2 HAVE NOT BEEN MODIFIED. THE TOWERS ARE EACH 25 METERS AT THE BASE AND 182 METERS HIGH.

(S/D) THE CONSTRUCTION OF SPACE LAUNCH W BEGAN IN MID-1978 AND AT SPACE LAUNCH SITE J1/2 IN LATE 1979. THE CONSTRUCTION AND MODIFICATION OF THESE LAUNCH SITES IS IN PREPARATION FOR SUPPORT OF VARIANTS OF THE SL-W VEHICLE PROJECTED TO BE LAUNCHED DURING THE 1984-1985 TIME PERIOD.

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3. (S) [REDACTED] COORDINATES 46-00-21N 063-18-33E  
(S) [REDACTED] COORDINATES 45-57-47N 063-18-27E

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